

19 August 1963

MEMORANDUM FOR: Chairman, Technical Development Committee  
THROUGH : Executive Secretary, TDC  
SUBJECT : Staff Study - Proposed Change of Scope of the  
[redacted] Chip Comparator

25X1

1. PROBLEM:

To increase the versatility of the chip comparator stage to permit holding chips of random orientation.

2. FACTS:

[redacted] Chip Comparator was originally proposed to handle chips with a high percentage of overlap and of parallel orientation similar to the present stereograms.

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3. DISCUSSION OF THE FACTS:

In reviewing the proposed instrument configuration during the last inspection visit, it was concluded that the versatility of the comparator could be greatly extended by providing a moveable secondary stage. This would permit holding and viewing chips with a random percentage of overlap and orientation, thereby making the comparator adaptable to viewing comparative coverage chips made at different times.

It is not possible to do this simply by making a larger glass stage since a vacuum stage is required by the close working distances of the [redacted] objectives.

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4. CONCLUSIONS:

If the proposed changes are made to the chip comparator stage the versatility of the instrument will be greatly increased.

5. RECOMMENDATIONS:

It is recommended that the [redacted] Chip Comparator contract be modified to include the proposed changes to the film stage with attendant increase in funding [redacted] This amount raises the obligation under this contract [redacted]

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Declass Review by NIMA / DoD